

**WEST**[Help](#)[Logout](#)[Interrupt](#)[Main Menu](#)[Search Form](#)[Posting Counts](#)[Show S Numbers](#)[Edit S Numbers](#)[Preferences](#)[Cases](#)**Search Results -**

| Term   | Documents |
|--|-----------|
| CRYOPROTECTANT   | 1193      |
| CRYOPROTECTANTS  | 662       |
| (34 AND<br>CRYOPROTECTANT).USPT,PGPB,JPAB,EPAB,DWPI,TDBD.    | 3         |
| (L34 AND<br>"CRYOPROTECTANT").USPT,PGPB,JPAB,EPAB,DWPI,TDBD. | 3         |

Database:

US Patents Full-Text Database  
US Pre-Grant Publication Full-Text Database  
JPO Abstracts Database  
EPO Abstracts Database  
Derwent World Patents Index  
IBM Technical Disclosure Bulletins

Search:

[Refine Search](#)[Recall Text](#)[Clear](#)**Search History**DATE: Friday, December 12, 2003   [Printable Copy](#)   [Create Case](#)

FILE 'CAPLUS, TOXCENTER, USPATFULL' ENTERED AT 20:14:11 ON 12 DEC 2003

L9           8 S L8  
L10          7 DUP REM L9 (1 DUPLICATE REMOVED)  
L11          0 S L10 AND PLANT CELLS

=>

| <u>Set Name</u><br>side by side                          | <u>Query</u>                               | <u>Hit Count</u> | <u>Set Name</u><br>result set |
|--|--|------------------|-------------------------------|
| <i>DB=USPT,PGPB,JPAB,EPAB,DWPI,TDBD; PLUR=YES; OP=OR</i> |  |                  |                               |
| <u>L35</u>   | L34 and "cryoprotectant"                   | 3                | <u>L35</u>                    |
| <u>L34</u>   | l31 and "cryopreserved"                    | 46               | <u>L34</u>                    |
| <u>L33</u>   | "transplanting cryopreserved cells"        | 0                | <u>L33</u>                    |
| <u>L32</u>   | L31 and "cryopreserved plant cells"        | 0                | <u>L32</u>                    |
| <u>L31</u>   | "transplantation" and "plant cells"        | 2283             | <u>L31</u>                    |
| <u>L30</u>   | L29 and "cryoprotectant"                   | 36               | <u>L30</u>                    |
| <u>L29</u>   | L28 and "incubating" and "thawing"         | 207              | <u>L29</u>                    |
| <u>L28</u>   | "plant cells" and "recovery"               | 7182             | <u>L28</u>                    |
| <u>L27</u>   | L26 and "recovering cells"                 | 33               | <u>L27</u>                    |
| <u>L26</u>   | "thawing" and "incubating" and "recovery"  | 876              | <u>L26</u>                    |
| <u>L25</u>   | L24 and "cryoprotectant"                   | 24               | <u>L25</u>                    |
| <u>L24</u>   | l17 and "cryopreserved cells"              | 44               | <u>L24</u>                    |
| <u>L23</u>   | L22 and "ethylene inhibitor"               | 0                | <u>L23</u>                    |
| <u>L22</u>   | L21 and "cryoprotectant"                   | 24               | <u>L22</u>                    |
| <u>L21</u>   | l19 and "Brassica"                         | 54               | <u>L21</u>                    |
| <u>L20</u>   | L19 and "Atropa"                           | 1                | <u>L20</u>                    |
| <u>L19</u>   | L18 and "monocots"                         | 72               | <u>L19</u>                    |
| <u>L18</u>   | L17 and "plant cells"                      | 358              | <u>L18</u>                    |
| <u>L17</u>   | "thawing" and "incubating"                 | 2280             | <u>L17</u>                    |
| <u>L16</u>   | L15 and "Zea"                              | 27               | <u>L16</u>                    |
| <u>L15</u>   | L14 and "incubating"                       | 42               | <u>L15</u>                    |
| <u>L14</u>   | L13 and "cryoprotectants"                  | 62               | <u>L14</u>                    |
| <u>L13</u>   | "thawing" and "plant cells"                | 874              | <u>L13</u>                    |
| <u>L12</u>   | "thawing plant cells"                      | 1                | <u>L12</u>                    |
| <u>L11</u>   | "thawing cells" and "cryoprotective agent" | 18               | <u>L11</u>                    |
| <u>L10</u>   | "thawing cells" and "silver salt"          | 8                | <u>L10</u>                    |
| <u>L9</u>  | l2 and "silver salt"                       | 2                | <u>L9</u>                     |
| <u>L8</u>  | l4 and "silver salt"                       | 2                | <u>L8</u>                     |
| <u>L7</u>  | l4 and "sucrose"                           | 50               | <u>L7</u>                     |
| <u>L6</u>  | l4 and "Avena"                             | 4                | <u>L6</u>                     |
| <u>L5</u>  | L4 and "Taxus"                             | 4                | <u>L5</u>                     |
| <u>L4</u>  | L3 and "thawing"                           | 81               | <u>L4</u>                     |
| <u>L3</u>  | L2 and "recovery"                          | 134              | <u>L3</u>                     |
| <u>L2</u>  | "cryopreserved cells"                      | 213              | <u>L2</u>                     |
| <u>L1</u>  | "recovery" and "cryopreserved plant cells" | 6                | <u>L1</u>                     |

END OF SEARCH HISTORY

ER 1 OF 1 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN  
DUPLICATE 1  
AN 1982:181953 BIOSIS  
DN PREV198273041937; BA73:41937  
TI EXTENSION OF LOCALIZED FREEZE INJURY IN BARLEY BY ACUTE POST THAW  
BACTERIAL DISEASE.  
AU OLIEEN C R [Reprint author]; SMITH M N  
CS DEP CROP SOIL SCI, MICH STATE UNIV, EAST LANSING, MICH 48824, USA  
SO Cryobiology, (1981) Vol. 18, No. 4, pp. 404-409.  
CODEN: CRYBAS. ISSN: 0011-2240.  
DT Article  
FS BA  
LA ENGLISH

=> d hist

(FILE 'HOME' ENTERED AT 20:04:45 ON 12 DEC 2003)

INDEX 'ADISCTI, ADISINSIGHT, ADISNEWS, AGRICOLA, ANABSTR, AQUASCI,  
BIOBUSINESS, BIOCOMMERCE, BIOSIS, BIOTECHABS, BIOTECHDS, BIOTECHNO, CABA,  
CANCERLIT, CAPLUS, CEABA-VTB, CEN, CIN, CONFSCI, CROPB, CROPU, DISSABS,  
DDFB, DDFU, DGENE, DRUGB, DRUGMONOG2, ...' ENTERED AT 20:05:00 ON 12 DEC  
2003

SEA THAWING PLANT CELLS AND CRYOPROTECTANT? AND INCUBATING?(P)T

-----  
0\* FILE ADISNEWS  
0\* FILE BIOCOMMERCE  
0\* FILE BIOTECHABS  
0\* FILE BIOTECHDS  
0\* FILE BIOTECHNO  
0\* FILE CEABA-VTB  
0\* FILE CIN  
0\* FILE ES BIOBASE  
0\* FILE FEDRIP  
0\* FILE FOMAD  
0\* FILE FOREGE  
0\* FILE FROSTI  
0\* FILE FSTA  
0\* FILE KOSMET  
0\* FILE MEDICONF  
0\* FILE NTIS  
0\* FILE NUTRACEUT  
0\* FILE PASCAL  
0\* FILE PHARMAML

L1 QUE THAWING PLANT CELLS AND CRYOPROTECTANT? AND INCUBATING?(P)

-----  
SEA THAW?(P)CELLS AND INCUBAT? AND CRYOPROTECT?

-----  
0\* FILE ADISNEWS  
5 FILE AGRICOLA  
5 FILE AQUASCI  
0\* FILE BIOCOMMERCE  
44 FILE BIOSIS  
8\* FILE BIOTECHABS  
8\* FILE BIOTECHDS  
7\* FILE BIOTECHNO  
20 FILE CABA  
2 FILE CANCERLIT  
35 FILE CAPLUS  
1\* FILE CEABA-VTB  
0\* FILE CIN  
4 FILE DISSABS  
1 FILE DRUGU

15 FILE EMBASE  
 8\* FILE ESBIODBASE  
 0\* FILE FEDRIP  
 0\* FILE FOMAD  
 0\* FILE FOREGE  
 0\* FILE FROSTI  
 0\* FILE FSTA  
 12 FILE IFIPAT  
 14 FILE JICST-EPLUS  
 0\* FILE KOSMET  
 8 FILE LIFESCI  
 0\* FILE MEDICONF  
 35 FILE MEDLINE  
 1\* FILE NTIS  
 0\* FILE NUTRACEUT  
 2 FILE OCEAN  
 9\* FILE PASCAL  
 0\* FILE PHARMAML  
 30 FILE SCISEARCH  
 19 FILE TOXCENTER  
 413 FILE USPATFULL  
 9 FILE USPAT2  
 9 FILE VETU  
 6 FILE WPIDS  
 6 FILE WPINDEX

L2 QUE THAW?(P) CELLS AND INCUBAT? AND CRYOPROTECT?

-----  
 SEA PLANT CELLS AND L2  
 -----

0\* FILE ADISNEWS  
 0\* FILE BIOCOMMERCE  
 3 FILE BIOSIS  
 1\* FILE BIOTECHABS  
 1\* FILE BIOTECHDS  
 0\* FILE BIOTECHNO  
 1 FILE CABA  
 2 FILE CAPLUS  
 0\* FILE CEABA-VTB  
 0\* FILE CIN  
 0\* FILE ESBIODBASE  
 0\* FILE FEDRIP  
 0\* FILE FOMAD  
 0\* FILE FOREGE  
 0\* FILE FROSTI  
 0\* FILE FSTA  
 3 FILE IFIPAT  
 1 FILE JICST-EPLUS  
 0\* FILE KOSMET  
 0\* FILE MEDICONF  
 0\* FILE NTIS  
 0\* FILE NUTRACEUT  
 0\* FILE PASCAL  
 0\* FILE PHARMAML  
 1 FILE SCISEARCH  
 1 FILE TOXCENTER  
 78 FILE USPATFULL  
 2 FILE USPAT2  
 3 FILE WPIDS  
 3 FILE WPINDEX

L3 QUE PLANT CELLS AND L2

-----  
 SEA L3 AND POST-THAW(P) INCUBAT?  
 -----

0\* FILE ADISNEWS

0\* FILE BIOCOMMERCE  
 0\* FILE BIOTECHABS  
 0\* FILE BIOTECHDS  
 0\* FILE BIOTECHNO  
 0\* FILE CEABA-VTB  
 0\* FILE CIN  
 0\* FILE ES BIOBASE  
 0\* FILE FEDRIP  
 0\* FILE FOMAD  
 0\* FILE FOREGE  
 0\* FILE FROSTI  
 0\* FILE FSTA  
 0\* FILE KOSMET  
 0\* FILE MEDICONF  
 0\* FILE NTIS  
 0\* FILE NUTRACEUT  
 0\* FILE PASCAL  
 0\* FILE PHARMAML

L4 QUE L3 AND POST-THAW(P) INCUBAT?

-----  
 SEA POST-THAW(P) INCUBAT? AND RECOVER? AND PLANT CELLS AND THAW?  
 -----

0\* FILE ADISNEWS  
 0\* FILE BIOCOMMERCE  
 1 FILE BIOSIS  
 0\* FILE BIOTECHABS  
 0\* FILE BIOTECHDS  
 0\* FILE BIOTECHNO  
 0\* FILE CEABA-VTB  
 0\* FILE CIN  
 0\* FILE ES BIOBASE  
 0\* FILE FEDRIP  
 0\* FILE FOMAD  
 0\* FILE FOREGE  
 0\* FILE FROSTI  
 0\* FILE FSTA  
 0\* FILE KOSMET  
 1 FILE LIFESCI  
 0\* FILE MEDICONF  
 0\* FILE NTIS  
 0\* FILE NUTRACEUT  
 0\* FILE PASCAL  
 0\* FILE PHARMAML  
 1 FILE TOXCENTER

L5 QUE POST-THAW(P) INCUBAT? AND RECOVER? AND PLANT CELLS AND THAW

-----

FILE 'BIOSIS, LIFESCI, TOXCENTER' ENTERED AT 20:12:03 ON 12 DEC 2003

L6 3 S L5

L7 1 DUP REM L6 (2 DUPLICATES REMOVED)

=>

L10 ANSWER 1 OF 7 USPATFULL on STN

AN 2003:78411 USPATFULL

TI Preservation of non embryonic cells from non hematopoietic tissues

IN Fraser, John K., Los Angeles, CA, UNITED STATES

Hedrick, Marc H., Encino, CA, UNITED STATES

PA STEMSOURCE, INC. (U.S. corporation)

PI US 2003054331 A1 20030320

AI US 2002-242094 A1 20020912 (10)

PRAI US 2001-322070P 20010914 (60)

DT Utility

FS APPLICATION

LN.CNT 1440

INCL INCLM: 435/002.000

INCLS: 435/366.000

NCL NCLM: 435/002.000

NCLS: 435/366.000

IC [7]

ICM: A01N001-02

ICS: C12N005-08

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 2 OF 7 USPATFULL on STN

AN 2000:31249 USPATFULL

TI Method and media for enhancing cryopreservation of cells

IN Cameron, Don F., Lutz, FL, United States

Sanberg, Paul R., Springhill, FL, United States

Borlongan, Cesario V., Lutz, FL, United States

Saporta, Samuel, Tampa, FL, United States

PA The University of South Florida, Tampa, FL, United States (U.S. corporation)

PI US 6037175 20000314

AI US 1996-615039 19960312 (8)

DT Utility

FS Granted

LN.CNT 584

INCL INCLM: 435/374.000

INCLS: 435/375.000; 435/001.300; 435/404.000; 435/406.000; 435/366.000

NCL NCLM: 435/374.000

NCLS: 435/001.300; 435/366.000; 435/375.000; 435/404.000; 435/406.000

IC [7]

ICM: A01N001-02

EXF 435/404; 435/406; 435/366; 435/1.3; 435/375; 435/374

L10 ANSWER 3 OF 7 USPATFULL on STN

AN 1999:99585 USPATFULL

TI Method and media for enhancing viability maturation, and cryopreservation of cells

IN Sanberg, Paul R., Spring Hill, FL, United States

Othberg, Agneta, Tampa, FL, United States

Cameron, Don F., Lutz, FL, United States

Saporta, Samuel, Tampa, FL, United States

Borlongan, Cesario V., Silver Springs, MD, United States

PA University of South Florida, Tampa, FL, United States (U.S. corporation)

PI US 5942437 19990824

AI US 1997-799108 19970211 (8)

RLI Continuation-in-part of Ser. No. US 1996-615039, filed on 12 Mar 1996

DT Utility

FS Granted

LN.CNT 1366

INCL INCLM: 435/374.000

INCLS: 435/001.300; 435/347.000; 435/325.000; 424/093.700

NCL NCLM: 435/374.000

NCLS: 424/093.700; 435/001.300; 435/325.000; 435/347.000



IC [6]  
 ICM: A01N063-00  
 EXF 424/93.7; 435/325; 435/347; 435/374; 435/1.3

L10 ANSWER 4 OF 7 USPATFULL on STN  
 AN 1999:48192 USPATFULL  
 TI Method of **thawing cryopreserved cells**  
 IN Chandler, Barbara A., Lexington, MA, United States  
 Borland, Kermit M., Shrewsbury, MA, United States  
 Cain, Shawn P., North Chelmsford, MA, United States  
 Mullen, Claudy J-P., Framingham, MA, United States  
 PA W.R. Grace & Co.-Conn., Lexington, MA, United States (U.S. corporation)  
 PI US 5895745 19990420  
 AI US 1996-719769 19960925 (8)  
 DT Utility  
 FS Granted  
 LN.CNT 387  
 INCL INCLM: 435/002.000  
 INCLS: 435/325.000; 436/018.000  
 NCL NCLM: 435/002.000  
 NCLS: 435/325.000; 436/018.000  
 IC [6]  
 ICM: A01N001-02  
 ICS: C12N005-00; G01N031-00  
 EXF 435/325; 435/2; 436/18  
 CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 5 OF 7 USPATFULL on STN  
 AN 95:52253 USPATFULL  
 TI Process of revitalizing cells prior to cryopreservation  
 IN Carpenter, John F., Marietta, GA, United States  
 Brockbank, Kelvin G. M., Marietta, GA, United States  
 PA Cryolife, Inc., Marietta, GA, United States (U.S. corporation)  
 PI US 5424207 19950613  
 AI US 1992-927768 19920810 (7)  
 RLI Division of Ser. No. US 1989-344013, filed on 26 Apr 1989, now patented,  
 Pat. No. US 5171660  
 DT Utility  
 FS Granted  
 LN.CNT 692  
 INCL INCLM: 435/260.000  
 INCLS: 435/001.000; 435/240.100; 435/240.200  
 NCL NCLM: 435/260.000  
 NCLS: 435/001.300  
 IC [6]  
 ICM: C12N001-00  
 ICS: C12N001-04  
 EXF 435/1; 435/2; 435/240.1; 435/240.2; 435/260

L10 ANSWER 6 OF 7 CAPLUS COPYRIGHT 2003 ACS on STN DUPLICATE 1  
 AN 1994:101115 CAPLUS  
 DN 120:101115  
 TI Cryopreservation of human adult hepatocytes for use in drug metabolism and  
 toxicity studies  
 AU Coundouris, J. A.; Grant, M. H.; Engeset, J.; Petrie, J. C.; Hawksworth,  
 G. M.  
 CS Dep. Med. Ther., Univ. Aberdeen, Aberdeen, AB9 2ZD, UK  
 SO Xenobiotica (1993), 23(12), 1399-409  
 CODEN: XENOBH; ISSN: 0049-8254  
 DT Journal  
 LA English

L10 ANSWER 7 OF 7 USPATFULL on STN  
 AN 92:102976 USPATFULL

TI Process of revitalizing cells and tissue prior to cryopreservation  
IN Carpenter, John F., Marietta, GA, United States  
Brockbank, Kelvin G. M., Marietta, GA, United States  
PA Cryolife, Inc., Marietta, GA, United States (U.S. corporation)  
PI US 5171660 19921215  
AI US 1989-344013 19890426 (7)  
DT Utility  
FS Granted  
LN.CNT 570  
INCL INCLM: 435/001.000  
INCLS: 435/240.100; 435/240.200  
NCL NCLM: 435/001.100  
NCLS: 435/374.000  
IC [5]  
ICM: A01N001-02  
EXF 435/1; 435/240.1; 435/240.2

=>